

WHAT IS CLAIMED IS:

1. A muffler assembly, comprising:

an outer muffler assembly comprising a plurality of fiberglass discs and a plurality of reactive plates; and

an inner muffler assembly comprising a plurality of fiberglass discs and a plurality of reactive plates said inner muffler assembly generally surrounded by said outer muffler assembly and defining therebetween a gas flow gap.

2. The muffler assembly of claim 1 wherein said outer muffler assembly comprises:

an inner can about which are arranged a portion of said plurality of fiberglass discs and said plurality of reactive plates; and

an outer can surrounding said portion of said plurality of fiberglass discs and said plurality of reactive plates.

3. The muffler assembly of claim 1 wherein at least a portion of said plurality of fiberglass discs and said plurality of reactive plates are arranged in a sequence comprising two fiberglass discs and a reactive plate.

4. The muffler assembly of claim 1 wherein said inner muffler comprises a can encompassing a portion of said plurality of fiberglass discs and said plurality of reactive plates.

5. The muffler assembly of claim 2 wherein at least a portion of said plurality of fiberglass discs and said plurality of reactive plates are arranged in a sequence comprising two fiberglass discs and a reactive plate.

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6. The muffler assembly of claim 1 wherein said gas flow gap separating said inner muffler assembly from said outer muffler assembly is equal in distance to approximately  $\frac{1}{4}$  of a wavelength of an attenuated frequency.

7. The muffler assembly of claim 1 wherein said muffler assembly is attached to a pipe.

8. The muffler assembly of claim 1 wherein said muffler assembly is welded to said pipe.